

The 2010 IEEE/ACM International Conference on Green Computing and Communications (GreenCom2010)

<http://cse.stfx.ca/~GreenCom2010/>

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Refer to GreenCom 2010 web site:
<http://cse.stfx.ca/~GreenCom2010/>

Further questions, please contact with
GreenCom2010@googlegroups.com

INTRODUCTION

Computing and communication systems play key roles in modern IT infrastructure, affecting every aspect of life, including services related to health, banking, commerce, defense, education and entertainment. It has been viewed that there are tremendously increasing demands for computing, communication and storage systems since last decades. To fulfill such requirements, modern IT infrastructures have been extended and scaled, which brings various "green" related issues, such as energy consumption, heat dissemination, greenhouse emission and resource total cost of ownership.

To make the fully efficient use of computing and communication systems and reduce their environmental and social impact, green computing and communication research has increasingly become a hot topic of interest for the computer research and industry. The study of green computing and communication attempts to alleviate this problem by delivering both high performance and reduced power consumption, effectively maximizing total system efficiency.

GreenCom 2010 is the next event of the series of International Conference on Green Computing and Communications (GreenCom) after it has been held for 5 editions as a workshop or symposium, namely PerGrid-09 (Vancouver, Canada, August 2009), PerGrid-08 (São Paulo, Brazil, July, 2008), WESAPEC-07 (Jeju Island, Korea, October, 2007), Multisec-06 (San Diego, USA, December, 2006) and Multisec-05 (Irvine, USA, December, 2005). It will be an exciting international forum for researchers to exchange the information regarding advancements in the state of the art and practice of green computing and communications, as well as to identify the emerging research topics and define the future directions.

TOPICS OF INTEREST

- Green computing methodologies and paradigms
- Energy efficient design and implementation for VLSI and microarchitecture
- Energy efficient system level software such as compilers, hypervisors, monitoring and profiling tools, workload managers, and programming environments.
- Energy aware high performance computing and applications
- Energy aware large scale distributed systems, such as Grids, and Clouds.
- Power aware, thermal aware data center design, service, and application
- Energy awareness in network equipment and operations
- Energy efficient network infrastructures and protocols
- Energy efficient network services and applications
- Energy efficient enterprise computing and IT infrastructure
- Performance characterization and evaluation for green computing systems and applications
- Experience, case studies, and lessons learned for green computing systems and applications
- Standards and metrics for green computing and communications

IMPORTANT DATES

Workshop Proposal:	Ongoing as received
Submission Deadline:	Sep. 22, 2010
Authors Notification:	Oct. 22, 2010
Final Manuscript Due:	Nov. 07, 2010

ELECTRONIC SUBMISSION

Prepare your paper with free styles not more than 15 pages in PDF file. Submit your paper(s) at the GreenCom 2010 submission site: <http://cse.stfx.ca/~GreenCom2010/sub/>

Each submission should be regarded as an undertaking that, if the paper is accepted, at least one of the authors must attend the conference to present the work in order for the paper to be included in the IEEE CS Proceedings and Digital Library.

PAPER PUBLICATIONS

Accepted papers will be published in proceedings of the GreenCom 2010 conference by IEEE Computer Society (EI indexed). Selected bested papers will be recommended for publication in special issues of SCI indexed journals: Journal of Supercomputing, Journal of Cluster Computing, International Journal of Communication Systems and IEEE System Journal (pending).

WORKSHOP PROPOSAL

In conjunction with the GreenCom 2010 conference, several workshops will be held. Please submit a workshop proposal including call for papers, organizing committee, important dates, short bio of the organizers to the GreenCom 2010 workshop chairs. Proceedings of GreenCom 2010 workshops will be published by IEEE CS Press. The workshops with more than 15 papers will be granted with a free complimentary registration for the leading workshop organizer.